



TITLE: "METHOD AND SYSTEM FOR AUTOMATICALLY DOCUMENTING SYSTEM COMMAND FILE TAGS AND GENERATING SKELETON DOCUMENTATION CONTENT THEREFROM"

Inventor(s): Wendy PEIKES

USSN: 09/838,956 Attorney Docket #: CSCO-71241

1 / 18

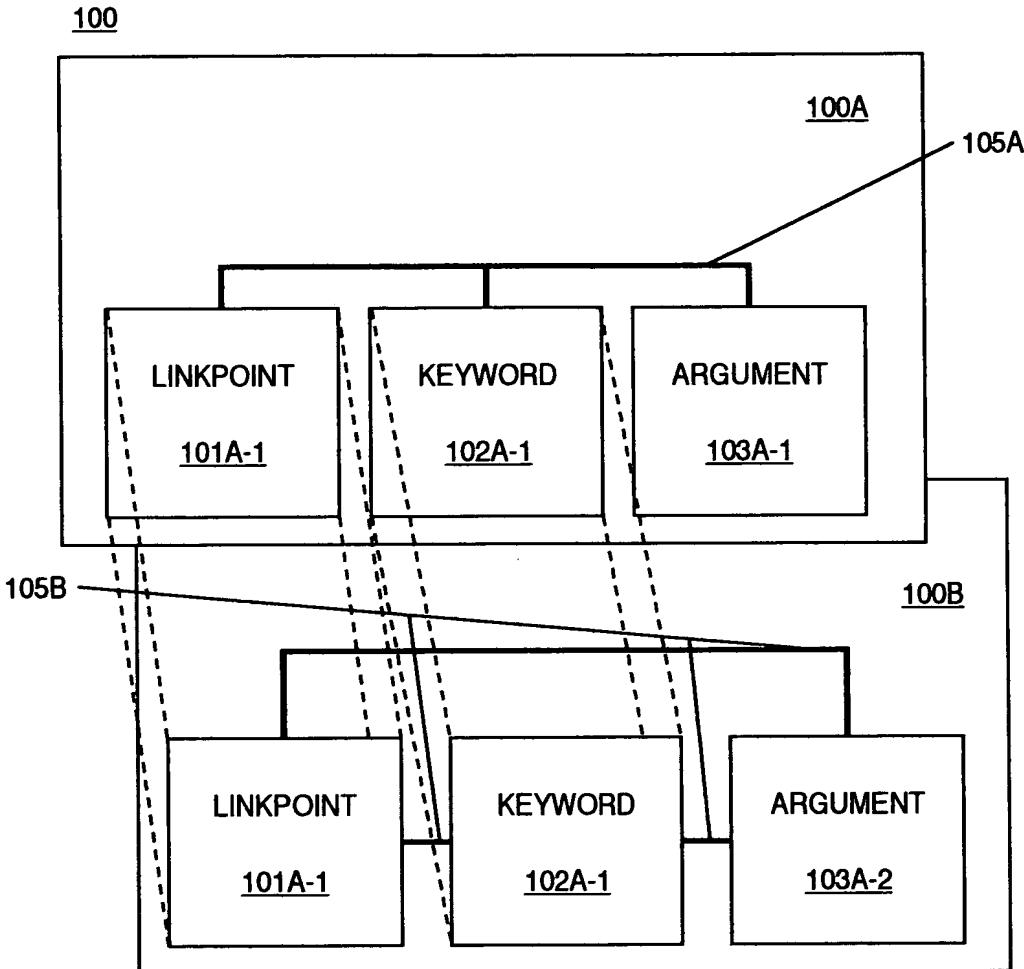


Fig. 1

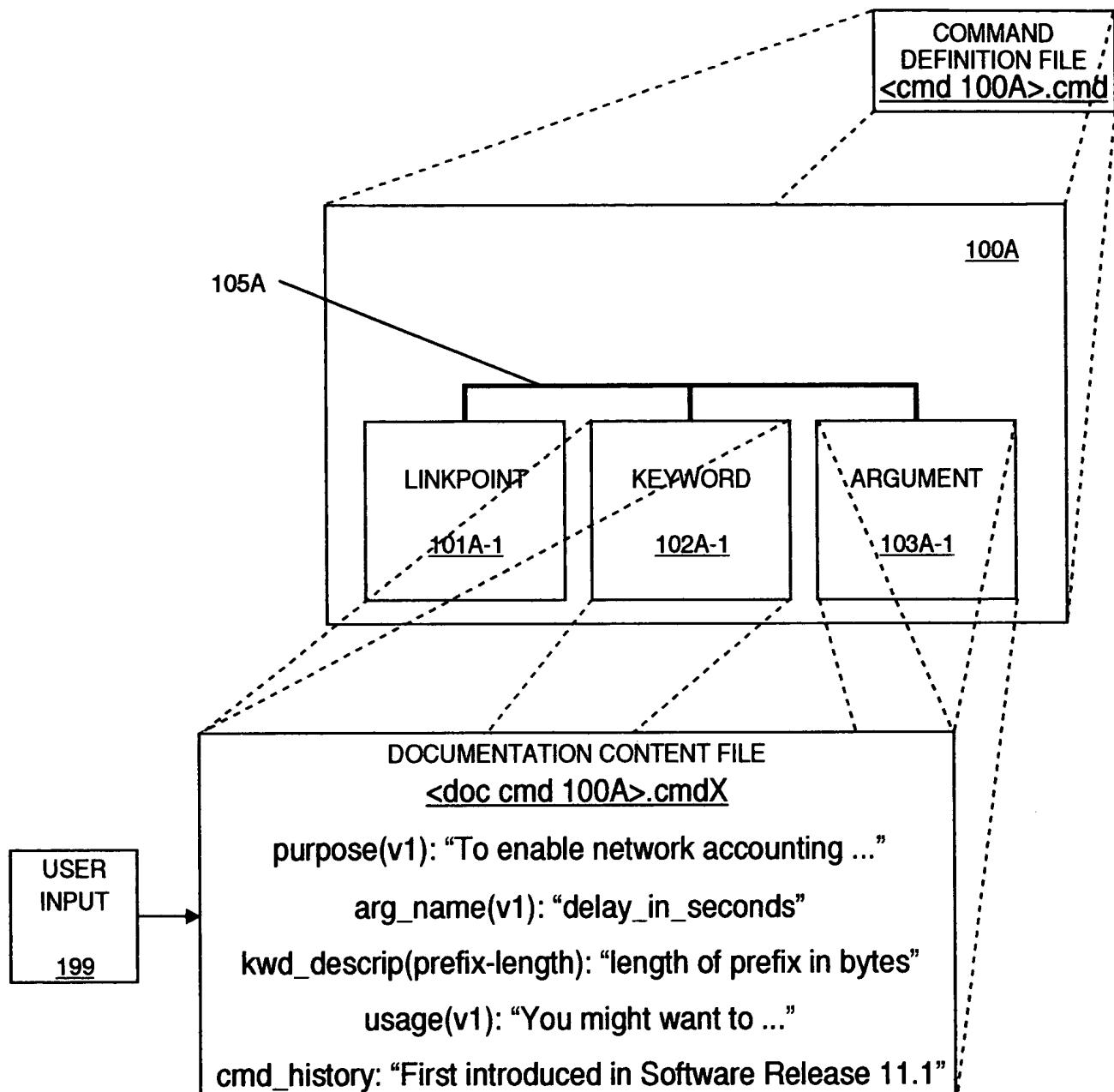


Fig. 2

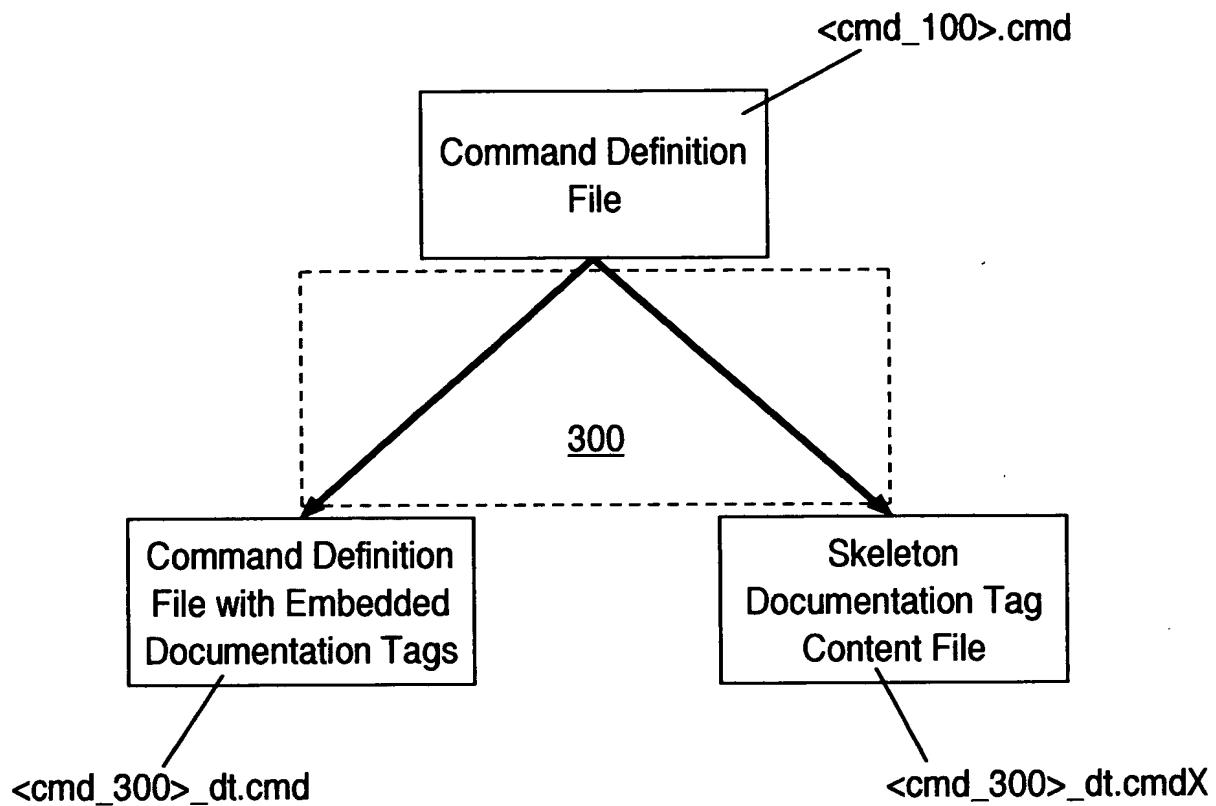


Fig. 3A

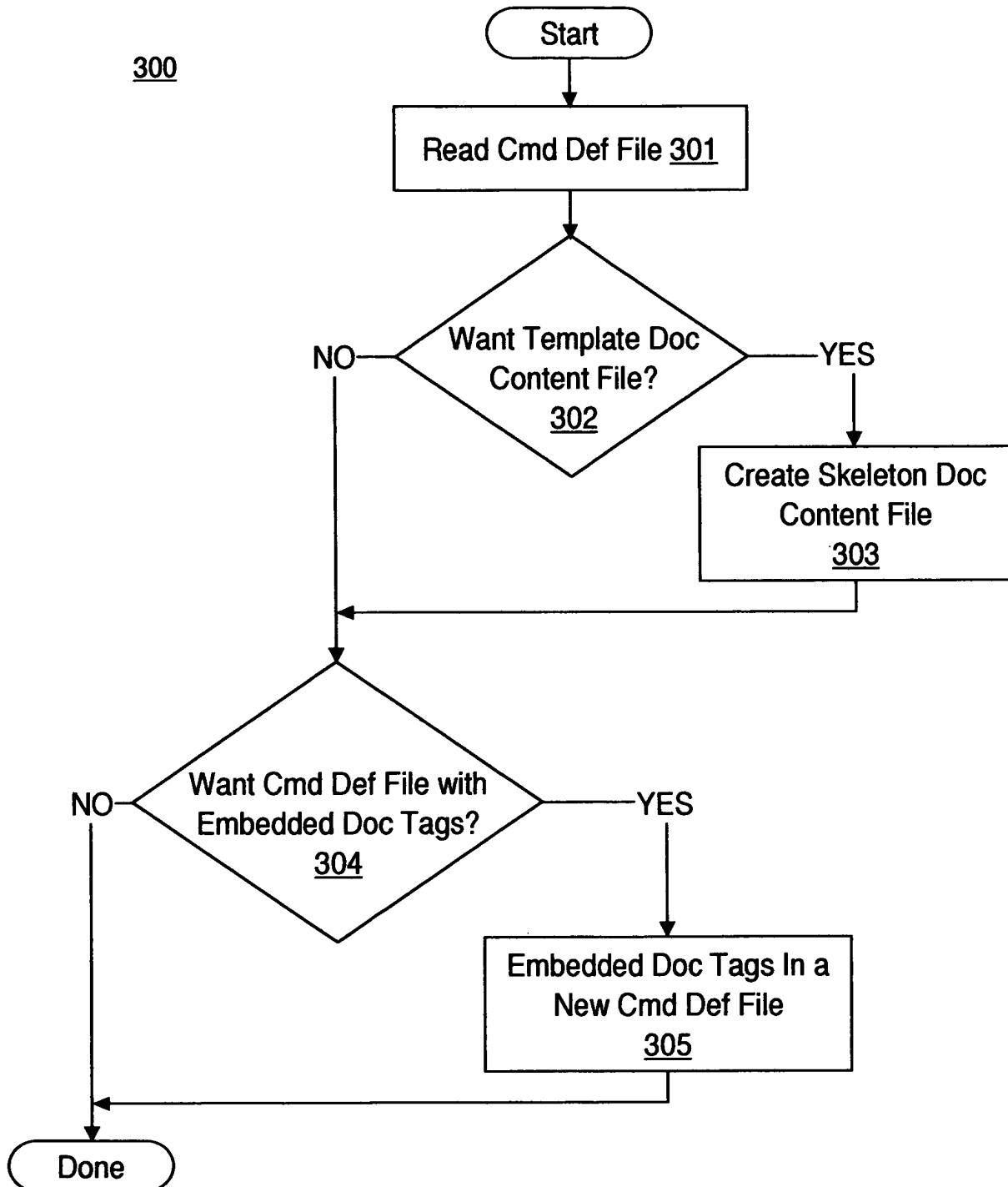


Fig. 3B

400

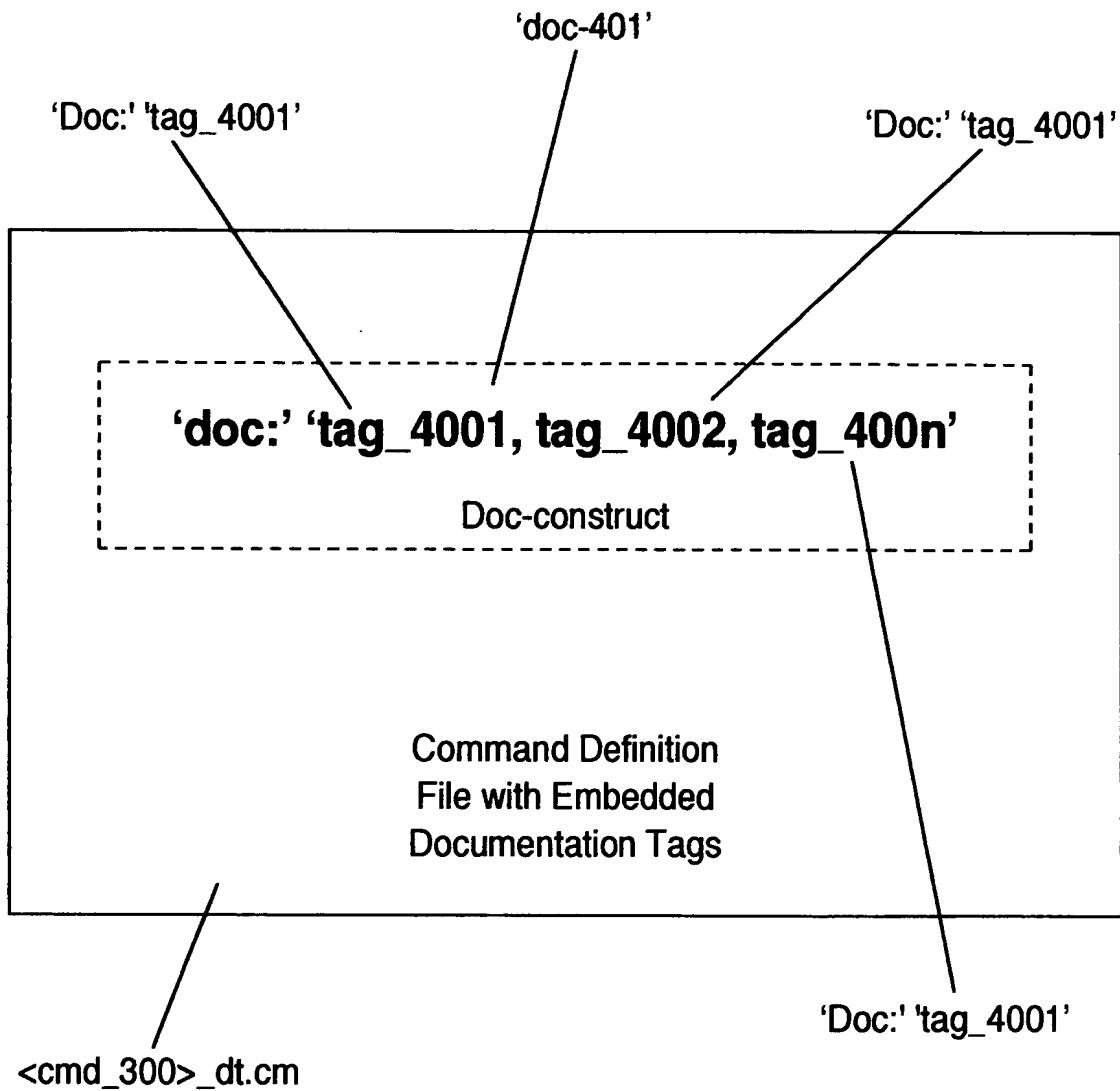


Fig. 4

500

REQUIRED

keyword: <kwdName>,help:"xxx", doc:"kwd_descrip";

501 string:->arg(<#>), help: "sss", doc:"arg_name, arg_descrip";

interface:->arg(<#>), help:"iii",doc:"arg_name,arg_descrip";

502 number:range:<#-#>,->arg(<#>),help:"nnn",doc:"arg_name, arg_descrip"

OPTIONAL

command_default

doc_collection

cmd_history

end_of_command

examples

arg_default

Command Definition
File with Embedded
Required & Optional
Documentation Tags

<cmd_500>_dt.cmd

503

Fig. 5

601

REQUIRED TAGS after 'help' for Keywords and Arguments

keyword: <kwdName>,help:"xxx", doc:"kwd_descrip";

string:->arg(<#>), help: "sss", doc:"arg_name, arg_descrip, arg_default";

interface:->arg(<#>), help:"iii",doc:"arg_name,arg_descrip,arg_default";

number:range:<#-#>,->arg(<#>),help:"nnn",doc:"arg_name,arg_descrip.."

602

OPTIONAL & REQUIRED TAGS in Document Collection Added before endofcmd

doc-collection:"purpose,cmd_default,cmd_history,usage,example,related_cmds";
endofcmd: ...

603

EXEMPLARY OPTIONAL DOC TAGS with Values from Doc Content File

command_default: "the default behavior is to turn logging off"

cmd_history(v1):"First introduced in release 11.1"

examples(v1): "Following is sample usage of and output from the 'show disk space' command:

>show disc space<filesystem1>Filesystemtotal-memory used unused
<filesystem1> 300M 50M 250M"

Fig. 6

CmdX documentation tag format:

<doc_tag_name>(v<variant->,<arg->):<doc_tag_value>

Exemplary CmdX Dog-Tags:

arg_name(v1, 3):“number of seconds to delay”
kwd_descrip(v2,format):“format a disk”
usage(v3):“This command is used to clear the cache”

Fig. 7

flash_fsck.cmd

```
chainname: exec_flash_fsck;
chainpoint: "exec";
linkpoint: "";
privilage: root;

/*
 *fsck
keyword: fsck,
help: "File system check for flash devices";

keyword: nocrc,
help: "Crc check not required";

string:
-> arg(1),
help: "Name of flash Device";

endofcommand;
```

Fig. 8A

flash_fsck_dt.cmd

```
chainname: exec_flash_fsck;
chainpoint: "exec";
linkpoint: "";
privilege: root;

/*
*fsck
*/
keyword: fsck,
    help: "File system check for flash devices",
    doc: "kwd_descrip";

keyword: nocrc,
    help: "Crc check not required",
    doc: "kwd_descrip";

string:
-> arg(1),
help: "Name of Flash Device",
doc: "arg_name,arg_descrip,arg_default";

doc_collection:
"purpose,cmd_default,cmd_history,usage,example,related_cmds";

endofcommand;
```

Fig. 8B

flash_fsck_dt.cmdX

kwd_descrip(v1, fsck: "File system check for flash devices",
kwd_descrip(v1), nocrc): "Crc check not required",

arg_name(v1, 1): "<flash_device_name>"
arg_descrip(v1, 1): "Name of Flash Device"
arg_default:(v1, 1): ""

purpose(v1): "to perform the <'fsck'> operation
on the router nocrc information,
use the <fsck nocrc> EXEC command."

cmd_default(v1): ""
cmd_history(v1): "This command first appeared in Cisco IOS Release 1.0"
usage(v1): ""

example(v1): "The following example shows the operation of the
<fsck nocrc> EXEC command
<fsck nocrc<flash_device_name>>

related_cmds(v1): ""

Fig. 8C

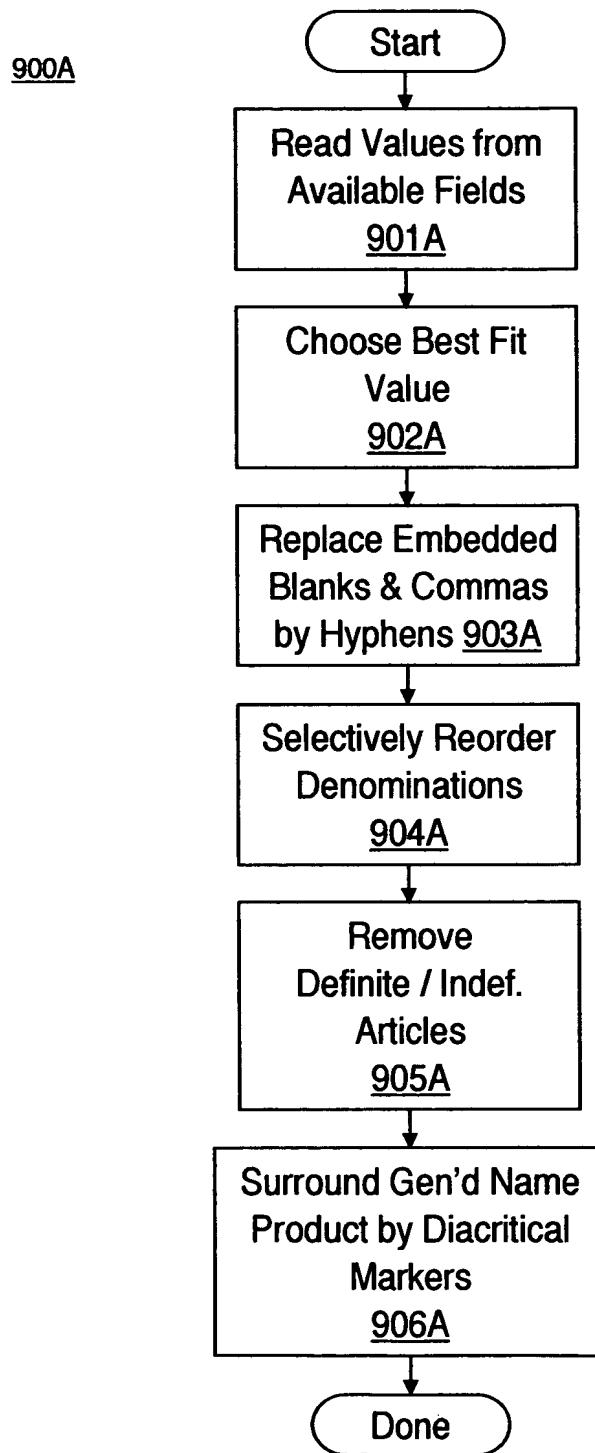


Fig. 9A

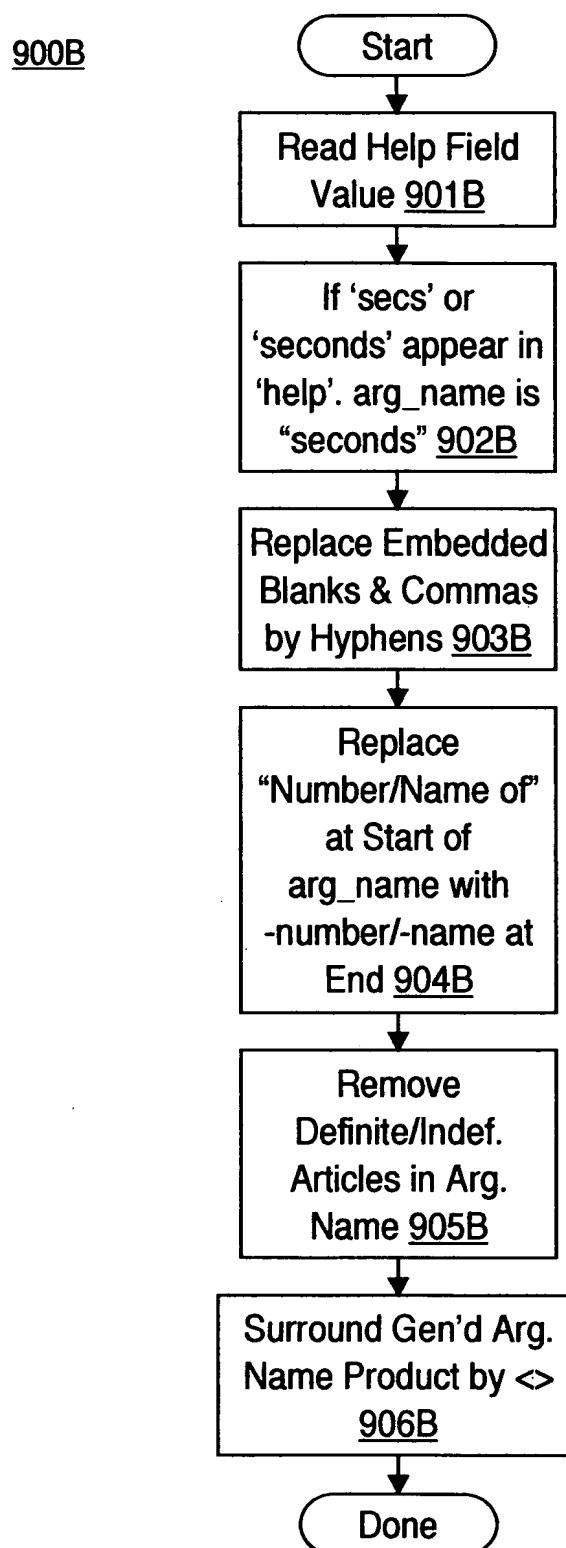


Fig. 9B

14 / 18

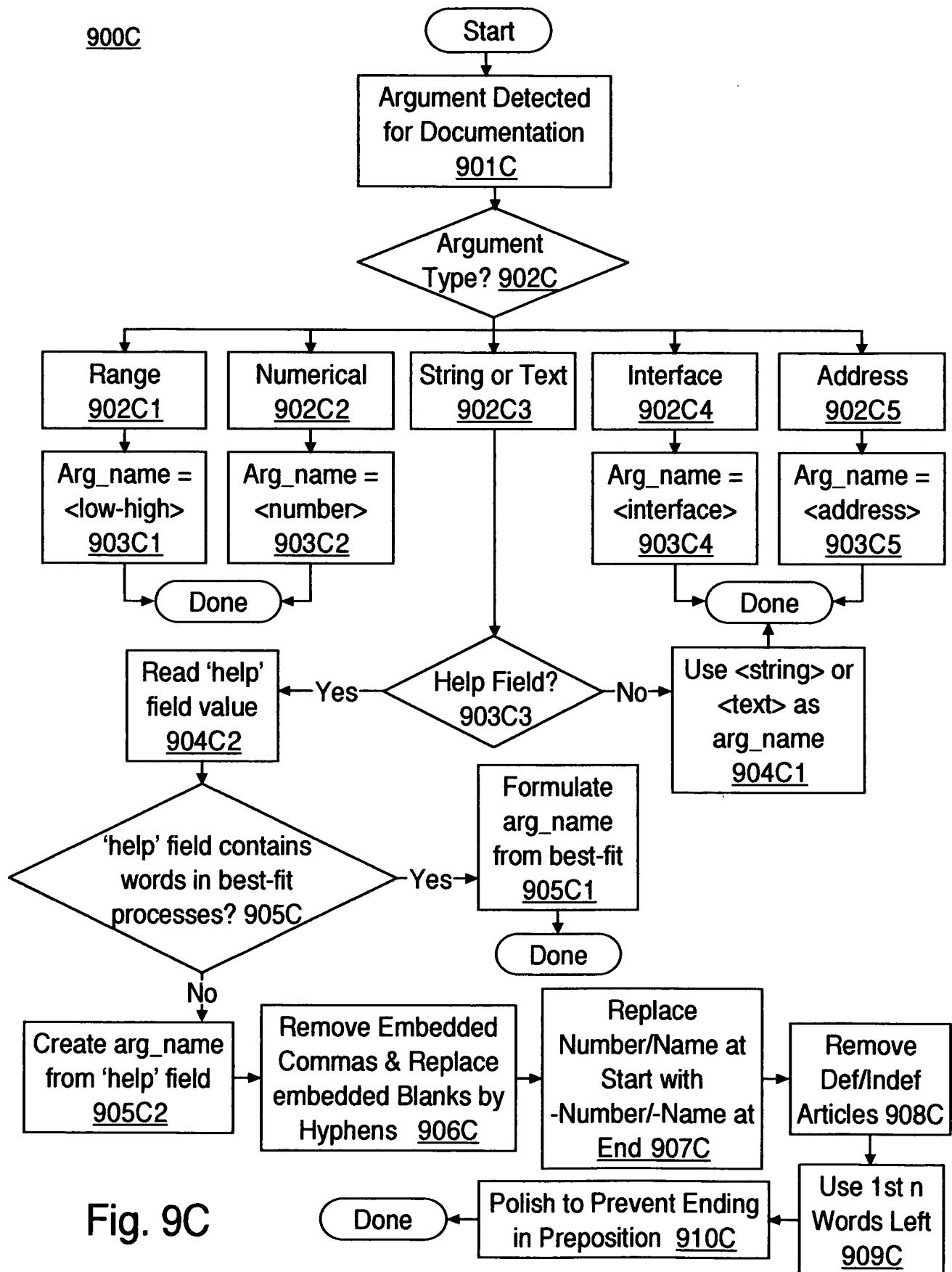


Fig. 9C

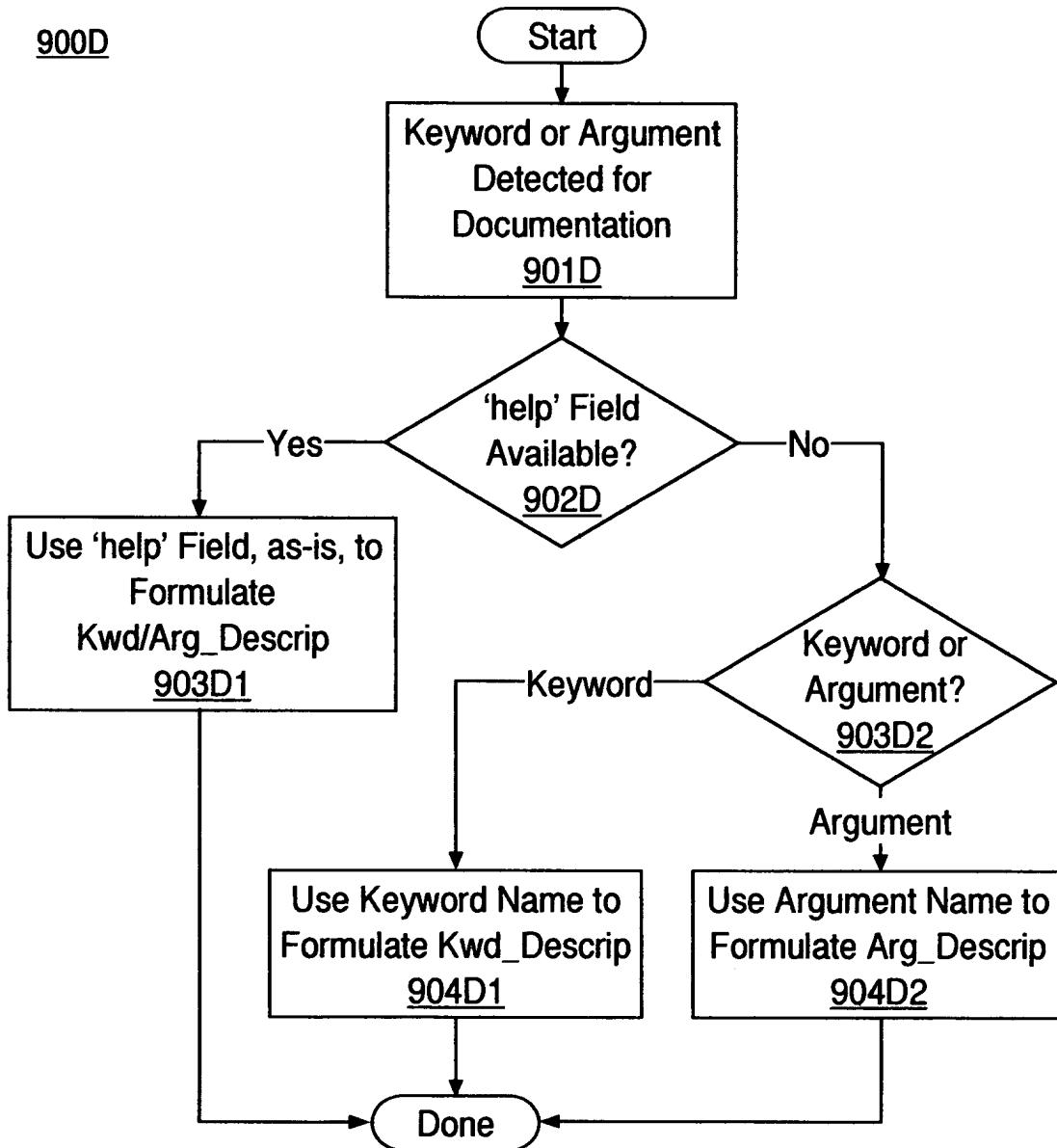


Fig. 9D

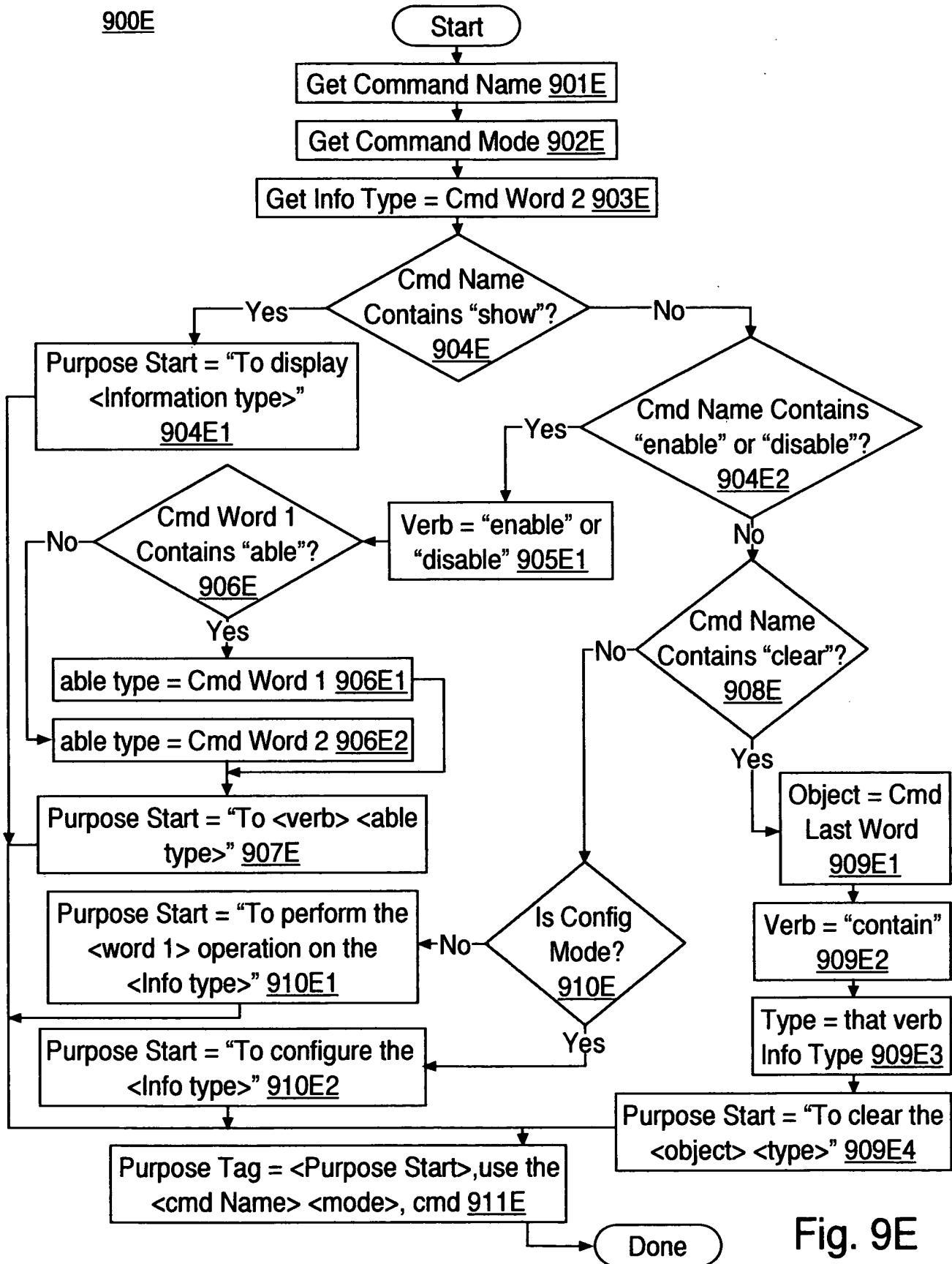


Fig. 9E

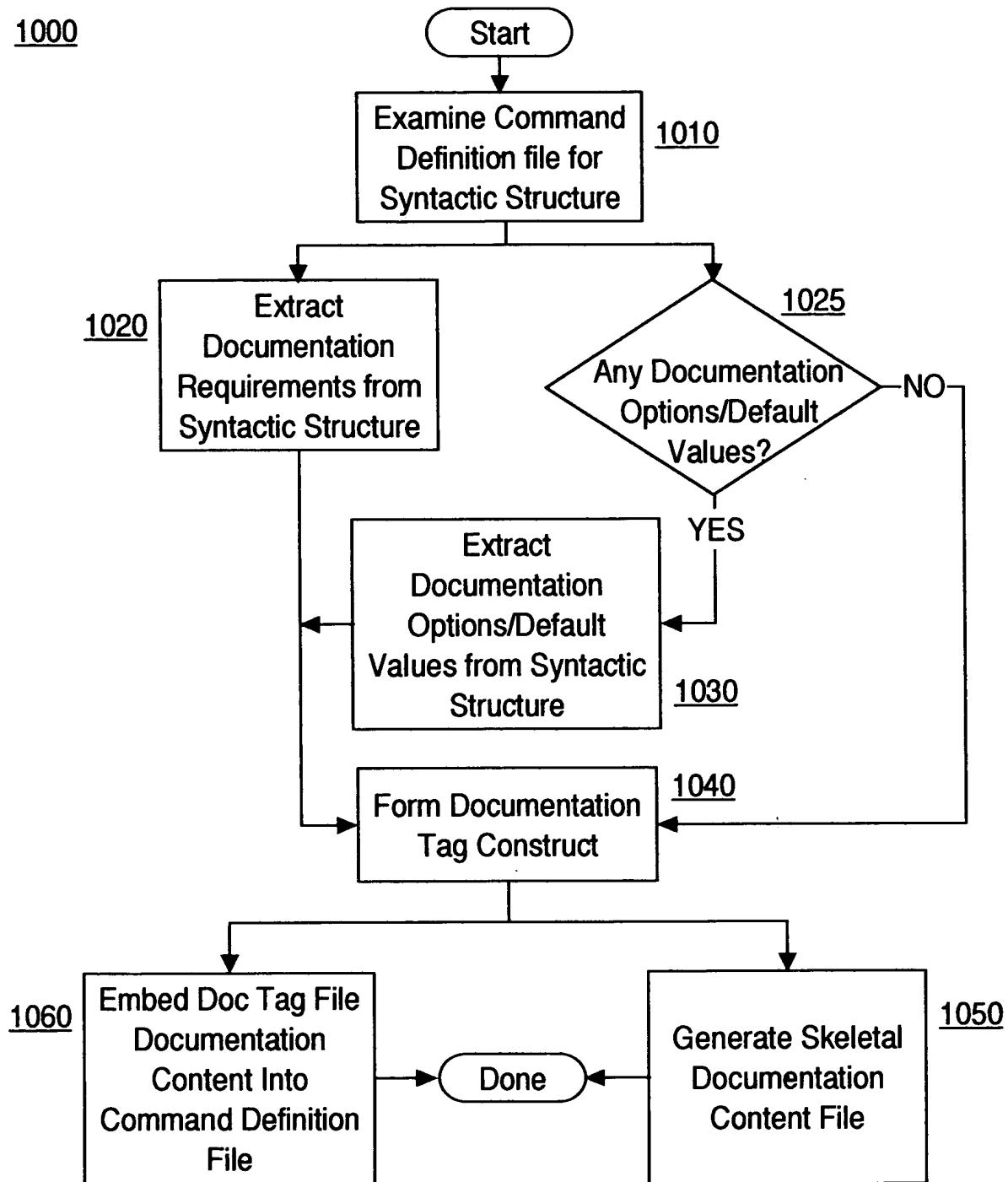


Fig. 10

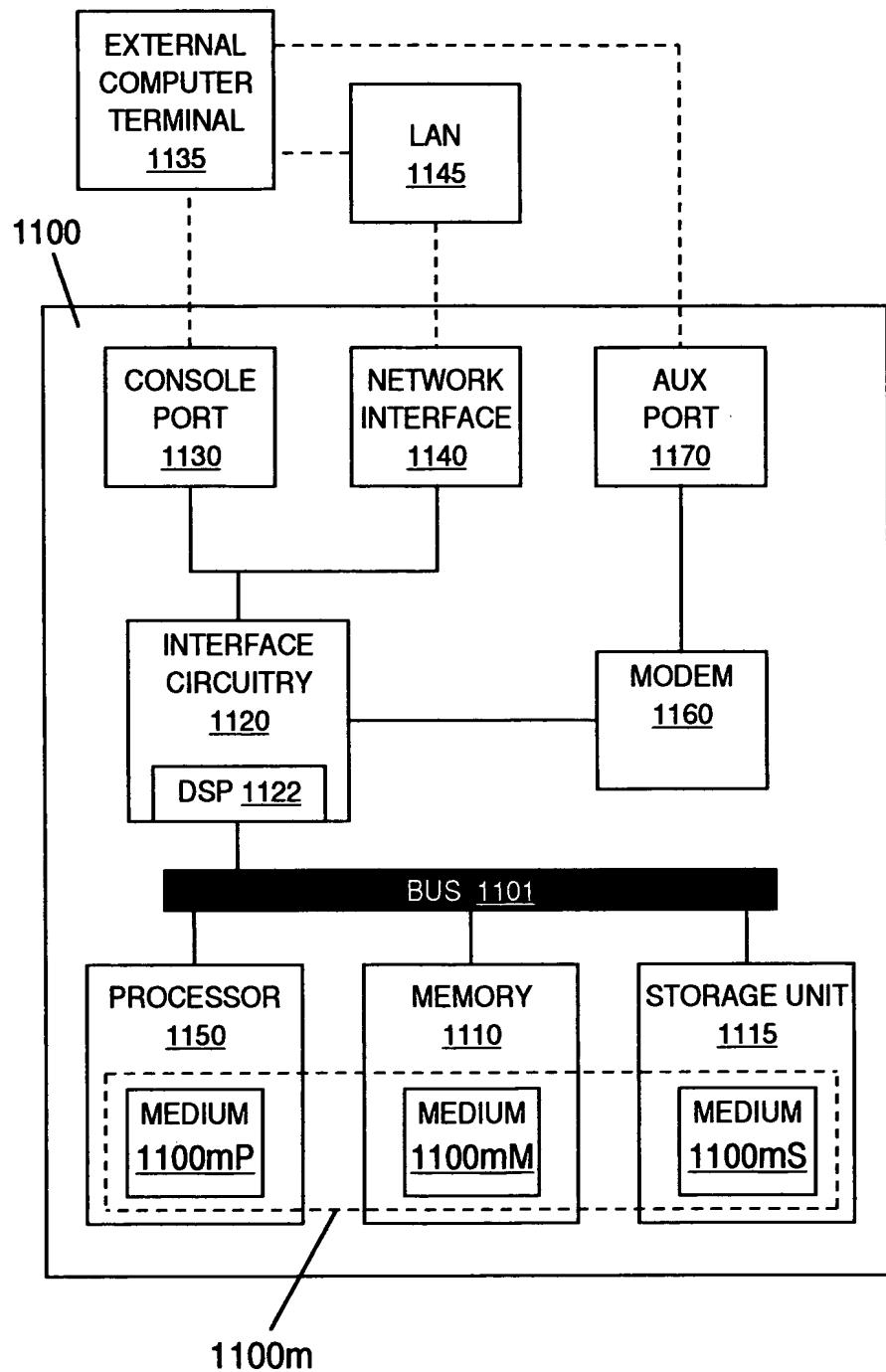


Fig. 11